

Amendments to the Specification

Please replace paragraph number 0062 at page 18, line 12, with the following rewritten paragraph:

A focused and magnified electronic image from the microscope and captured by a camera of the acquisition system 338 is transmitted to and digitized into a pixel data image by the processor at block 402 and is stored in a database 414. The raw image data in a .jpg or .tff file format, then undergoes image transformation 404 in which a number of image processing and evaluation functions are performed and the raw image data is converted into an RGB digital space, an HSV space, and a color ratio space employing image processing techniques well known in the art. The RGB-to-HSV transformation, for example, is found at internet address disney.ctr.columbia.edu/jrsthesis/node29 http://disney.ctr.columbia.edu/jrsthesis/node29.html and incorporated herein by reference in its entirety. For a raw image comprising $L \times M$ pixels, a two-dimensional feature space, $L \times M$ matrix of one-by-ten feature vectors comprises the transformation output. Each one-by-ten feature vector for each pixel location includes an associated feature value for each pixel location, (l, m) , for example, in the form of 10×1 vectors in the form $[R, G, B, H, S, V, GI, RG, RB, GB]$. The transformation output data space and the associated raw image data are saved to a hard disk as a data file and marked with appropriate identifiers. The next step is pixel processing 406.